

## How to WSS for County Data like SDM

1. Use Soil Survey Area option on Quick Navigation Pane on left.

The screenshot shows the 'Area of Interest (AOI)' tab selected. The 'Quick Navigation' pane on the left has the 'Soil Survey Area' option highlighted. The 'Soil Survey Area' section contains the following elements:

- Buttons: **Set AOI**, **Select Map Units**, **View**, and a help icon (?)
- Form fields:
  - State**: A dropdown menu with 'Ohio' selected.
  - County (optional)**: A dropdown menu with 'Clermont' selected.
  - Soil Survey Area**: A table with columns for Name, Area Symbol, Data Availability, and Version.
- Checkboxes: **Show Soil Survey Areas Layer in Map** (unchecked).
- Bottom buttons: **Set AOI**, **Select Map Units**, and **View**.

| Name   | Area Symbol | Data Availability             | Version  |
|--|-------------|-------------------------------|--|
| <input checked="" type="radio"/> Clermont County, Ohio | OH025       | Tabular and Spatial, complete | Survey Area: Version 10, Oct 3, 2012<br>Tabular: Version 9, Oct 3, 2012<br>Spatial: Version 4, Oct 3, 2012 |

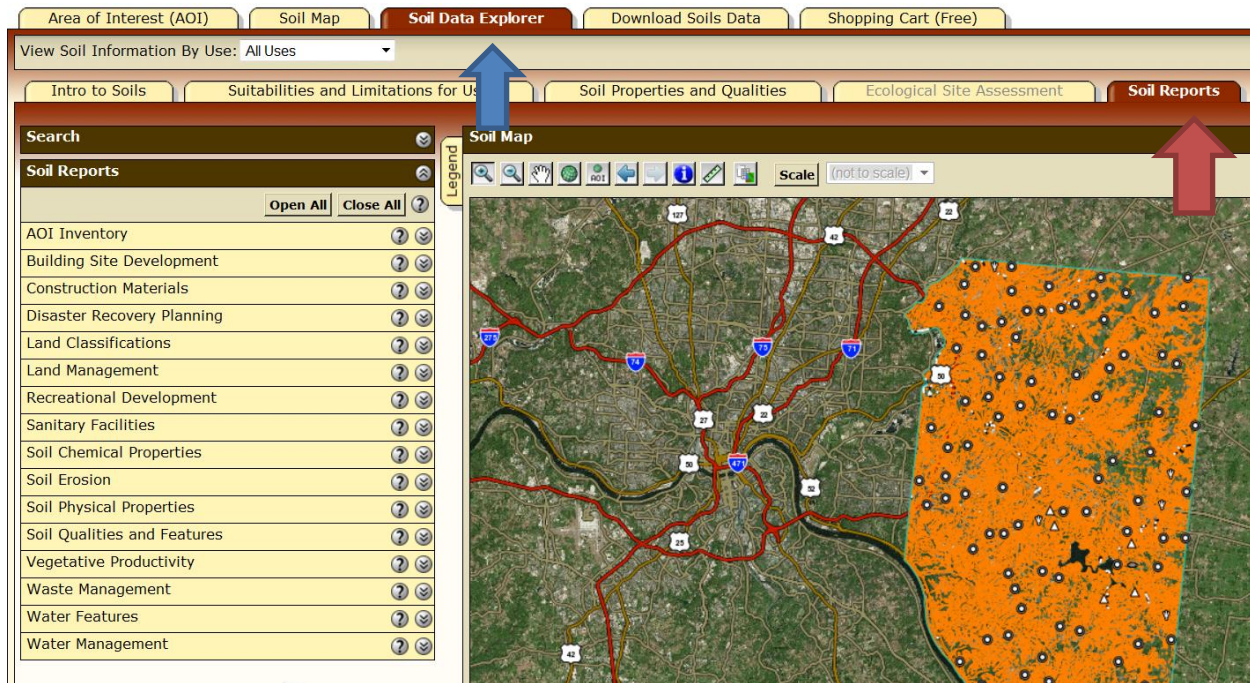
Use drop-down boxes to select state and county of interest, then click **Set AOI** if you want whole county, no need to draw it in

If you only want reports on certain mapunits (i.e. for a con plan, use select mapunits function. This gets rid of need to draw AOI, functions more like old SDM

The rest of this document discusses generating the county-wide reports and mapunit specific reports in greater depth.

## Navigating the WSS to generate county-wide reports.

After selecting the county/state desired and setting the AOI (red and blue callouts on page 1), you can skip to the [Soil Data Explorer](#) Tab, then to [Soil Reports](#)



Below are a list of commonly used county-wide reports;

| Commonly used County-Wide Reports in WSS  |  |
|---|--|
| Main Report Tab   | Sub-Report                             |
| Land Classifications  | Prime and other Important Farmlands    |
|   | Hydric Soils <sup>1</sup>              |
|   | Land Capability Class                  |
| Soil Physical Properties  | Engineering Properties <sup>2</sup>    |
| Soil Erosion  | RUSLE2 Related Attributes <sup>3</sup> |
| <sup>1</sup> There are 3 hydric reports options- Hydric Soil List all Components is most informative          |  |
| <sup>2</sup> HSG, Texture by Horizon, Unified & AASHTO Classes, Frags, Sieves, Liquid Limit, Plasticity Index |  |
| <sup>3</sup> HSG, Kf, T, and Particle Size Separates  |  |

Example of Generating county Hydric soils list below; other reports from table above similar;

Click Report (1<sup>st</sup> arrow), then view soil report (2<sup>nd</sup> arrow)

Results will appear below your map and look something like this;

| Map symbol and map unit name                             | Component/Local Phase          | Comp. pct. | Landform    | Hydric status | Hydric criteria met (code) |
|--|--------------------------------|------------|-------------|---------------|----------------------------|
| AdC: Alluvial land, sloping                              | Alluvial land                  | 96         | —           | Unranked      | —                          |
|  | nearly level areas             | 4          | —           | —             | —                          |
|  | gently sloping areas           | —          | —           | —             | —                          |
| AwA: Avonburg-Urban land complex, nearly level           | Avonburg                       | 60         | Till plains | No            | —                          |
|  | Urban land                     | 35         | —           | Unranked      | —                          |
|  | Rossmoynne                     | 5          | Till plains | —             | —                          |
| BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded | Bonnell                        | 85         | Till plains | No            | —                          |
|  | Rossmoynne                     | 8          | Till plains | —             | —                          |
|  | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BoE: Bonnell silt loam, 25 to 40 percent slopes          | Bonnell                        | 85         | Till plains | No            | —                          |
|  | Rossmoynne                     | 8          | Till plains | —             | —                          |
|  | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BoF: Bonnell silt loam, 40 to 60 percent slopes          | Bonnell                        | 85         | Till plains | No            | —                          |

These reports can be then added to your shopping cart and saved as .pdf for future use.

See next page for a more detailed description of how to read this report.

Excerpt from same report above:

|   |   |    |                    |     |   |
|---|---|----|--------------------|-----|---|
| Mh: Medway silt loam, overwash            | Medway  | 97 | Flood plains       | No  | — |
|   | Sloan   | 3  | Depressions,swales | Yes | 2 |
|   | Shoals  |    | Flood plains       | —   | — |
|   | darker colored surface layer                          |    | —                  | —   | — |
|   | thicker overwash                                      |    | —                  | —   | — |
| Ne: Newark silt loam                      | Newark  | 94 | Flood plains       | No  | — |
|   | Melvin  | 3  | Depressions,swales | Yes | 2 |
|   | fragic properties in subsoil                          | 1  | —                  | —   | — |
|   | frequently flooded areas                              | 1  | —                  | —   | — |
|   | frequently ponded areas                               | 1  | —                  | —   | — |
|   | dense soil layers in substratum                       |    | —                  | —   | — |
| No: Nolin silt loam, occasionally flooded | Nolin   | 90 | Flood plains       | No  | — |
|   | Elkinsville   | 5  | Terraces           | —   | — |
|   | short slopes of 10-25%; loam or sandy loam throughout | 5  | —                  | —   | — |

This report gives the major and minor components of a map unit, and it is important to see if all components are hydric or just some.

Take Medway (Mh) for instance. 97% of the map unit is non-hydric, however, a small amount (3%) of the map unit is Sloan in depressions. If you were using this report for an off-site wetland determination, you would know that you should be looking for depression areas that would have the Sloan component.

On the other hand, Nolin (No) is 90% and is non-hydric. Elkinsville, the other named component, is non-hydric also. If a field was being reviewed an off-site wetland determination, you would know this map unit is clear of hydrics.

The other reports such as prime farmland are not discussed in depth here as they are fairly straightforward. They are generated in the same manner as the hydric report above.

For Printing Instructions, see page 7.



To generate reports for individual map units only, refer to page one to set state and county, then use the **Select Map Units** button. The results should look as pictured below;

AOI Information

Name

Map Unit Symbols

☒ Use Soil Survey Area Map Unit Symbols  
☐ Use National Map Unit Symbols

Area (acres)

294,290

Soil Data Available from Web Soil Survey

Clermont County, Ohio (OH025)

Data Availability

Tabular and Spatial, complete

Tabular Data

Version 9, Oct 3, 2012

Spatial Data

Version 4, Oct 3, 2012

Select Map Units

Clermont County, Ohio (OH025)

Type the first few characters of a map unit symbol to find it

Next

Select All

Clear Selection

☐ AdC—Alluvial land, sloping  
☒ AwA—Avonburg-Urban land complex, nearly level  
☒ BoD2—Bonnell silt loam, 15 to 25 percent slopes, eroded  
☒ BoE—Bonnell silt loam, 25 to 40 percent slopes  
☒ BoF—Bonnell silt loam, 40 to 60 percent slopes  
☒ BrD3—Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded  
☐ CcB—Cincinnati silt loam, 2 to 6 percent slopes  
☒ CcB2—Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded  
☒ CcC2—Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded  
☐ CcD2—Cincinnati silt loam, 12 to 18 percent

Clear AOI

After you check off on the map units you want to generate reports on, click on Soil Data Explorer tab and run the report you want (same process as on pages 2 and 3). This time the report will generate only on the selected map units from above screen shot. For printing instructions, see page 7.

| Report — Hydric Soil List - All Components                              |                                |            |             |               |                            |
|---|--------------------------------|------------|-------------|---------------|----------------------------|
| OH025-Clermont County, Ohio   |                                |            |             |               |                            |
| Map symbol and map unit name  | Component/Local Phase          | Comp. pct. | Landform    | Hydric status | Hydric criteria met (code) |
| AwA: Avonburg-Urban land complex, nearly level                          | Avonburg                       | 60         | Till plains | No            | —                          |
|   | Urban land                     | 35         | —           | Unranked      | —                          |
|   | Rossmoyne                      | 5          | Till plains | —             | —                          |
| BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded                | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BoE: Bonnell silt loam, 25 to 40 percent slopes                         | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BrD3: Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| CcB2: Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded    | Cincinnati                     | 90         | Till plains | No            | —                          |
|   | Rossmoyne                      | 10         | Till plains | —             | —                          |
|   | severely eroded areas          | —          | —           | —             | —                          |
| CcC2: Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded   | Cincinnati                     | 90         | Till plains | No            | —                          |
|   | severely eroded areas          | 5          | —           | —             | —                          |
|   | Edenton                        | 5          | Hills       | —             | —                          |
|   | slightly eroded areas          | —          | —           | —             | —                          |

It is worth noting that Suitabilities and Limitations can be run in the same manner as the Soil Reports, simply select the Suitabilities and Limitations Tab instead of the Soil Reports. Here you can generate soils ratings based on properties for a multitude of purposes. In the following example I used Building Site Development – Dwellings Without Basements. This is a good interpretation to run for siting structures such as Ag Chemical Handling Facilities. For structures that will extend into the ground like a manure facility, perhaps Buildings with Basements would be a better choice. For printing instructions, see page 7.

| Intro to Soils   Suitabilities and Limitations for Use   Soil Properties and Qualities   Ecological Site Assessment   Soil Reports |   |                  |                          |   |              |                |
|--|---|------------------|--------------------------|---|--------------|----------------|
| Search   |   |                  |                          |   |              |                |
| Suitabilities and Limitations Ratings  |   |                  |                          |   |              |                |
| Open All   Close All   |   |                  |                          |   |              |                |
| Building Site Development  |   |                  |                          |   |              |                |
| Corrosion of Concrete  |   |                  |                          |   |              |                |
| Corrosion of Steel   |   |                  |                          |   |              |                |
| Dwellings With Basements   |   |                  |                          |   |              |                |
| Dwellings With Basements (OH)  |   |                  |                          |   |              |                |
| Dwellings Without Basements  |   |                  |                          |   |              |                |
| Dwellings Without Basements (OH)   |   |                  |                          |   |              |                |
| View Description   View Rating   |   |                  |                          |   |              |                |
| View Options   |   |                  |                          |   |              |                |
| Map   Table  |   |                  |                          |   |              |                |
| <input checked="" type="checkbox"/> Component Breakdown and Rating Reasons<br><input checked="" type="checkbox"/> Numeric Values   |   |                  |                          |   |              |                |
| Tables – Dwellings Without Basements (OH) – Summary By Map Unit  |   |                  |                          |   |              |                |
| Summary by Map Unit – Clermont County, Ohio (OH025)  |   |                  |                          |   |              |                |
| Map unit symbol  | Map unit name   | Rating           | Component name (percent) | Rating reasons (numeric values)                       | Acres in AOI | Percent of AOI |
| AwA  | Avonburg-Urban land complex, nearly level                         | Very limited     | Avonburg (60%)           | Depth to saturated zone (1.00)<br>Shrink-swell (0.50) | —            | —              |
| BoD2   | Bonnell silt loam, 15 to 25 percent slopes, eroded                | Very limited     | Bonnell (85%)            | Slope (1.00)<br>Shrink-swell (1.00)                   | —            | —              |
| BoE  | Bonnell silt loam, 25 to 40 percent slopes                        | Very limited     | Bonnell (85%)            | Slope (1.00)<br>Shrink-swell (1.00)                   | —            | —              |
| BrD3   | Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded | Very limited     | Bonnell (85%)            | Slope (1.00)<br>Shrink-swell (1.00)                   | —            | —              |
| CcB2   | Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded    | Not limited      | Cincinnati (90%)         |   | —            | —              |
| CcC2   | Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded   | Somewhat limited | Cincinnati (90%)         | Slope (0.04)  | —            | —              |
| Totals for Area of Interest  |   |                  |                          |   | 294,289.8    | 100.0%         |
| Table – Dwellings Without Basements (OH) – Summary by Rating Value   |   |                  |                          |   |              |                |

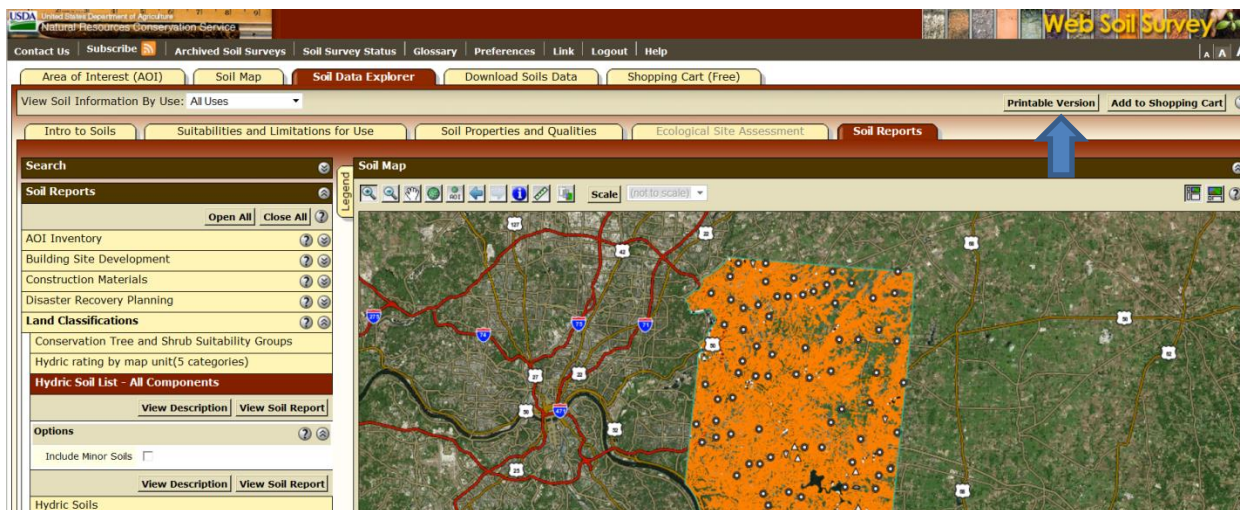
Notice how the report gives not only a rating for the activity in the 3<sup>rd</sup> column, but reasons for the rating in the 5<sup>th</sup>. These can be helpful when assisting a landowner with siting practices.

Once you have the soils information you want in the report there are 2 options for to get the data.

1. Print/save the report as a single file, or;
2. Add the report to a full-blown soils report and get as .pdf for digital file or printing

### Print/save the report as a single file

Once you have the report you want, (I will go back to the county-wide hydric list in this example), go to the upper right hand section and click on **Printable Version**. See below for larger view.



Now you can give a custom subtitle if you want, but the title says it all in this case. Click view.

A screenshot of the 'Printable Version Options' dialog box. The dialog has a title bar with 'Printable Version' and 'Add to Shopping Cart' buttons. Below the title bar is a section titled 'Report Options'. It contains a table with two columns: 'Title' and 'Subtitle (optional)'. The 'Title' row has the text 'Hydric Soil List - All Components; Clermont County, Ohio'. The 'Subtitle (optional)' row has three radio button options: 'Area of Interest Name: (none defined)', 'Custom Subtitle:' (with an empty text input field below it), and 'None' (which is selected). At the bottom right of the dialog are 'Cancel' and 'View' buttons, with a blue arrow pointing to the 'View' button.

The report will then open as a .pdf for printing or saving.

## Report—Hydric Soil List - All Components

| Hydric Soil List - All Components—OH025-Clermont County, Ohio |                                |            |             |               |                            |
|---|--------------------------------|------------|-------------|---------------|----------------------------|
| Map symbol and map unit name                                  | Component/Local Phase          | Comp. pct. | Landform    | Hydric status | Hydric criteria met (code) |
| AdC: Alluvial land, sloping                                   | Alluvial land                  | 96         | —           | Unranked      | —                          |
|   | nearly level areas             | 4          | —           | —             | —                          |
|   | gently sloping areas           |            | —           | —             | —                          |
| AwA: Avonburg-Urban land complex, nearly level                | Avonburg                       | 60         | Till plains | No            | —                          |
|   | Urban land                     | 35         | —           | Unranked      | —                          |
|   | Rossmoyne                      | 5          | Till plains | —             | —                          |
| BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded      | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BoE: Bonnell silt loam, 25 to 40 percent slopes               | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |

Note that there is some boilerplate report explanation at the beginning, you will need to scroll down to see hydric list as shown above.



The second Option is to add reports to your shopping cart and generate a full-blown soils report. This option is more useful for individual tracts. Here I will go back to the example of using the Select Map Units Function discussed on pages 5 and 6.

Once you have the report on screen like this;

| Report — Hydric Soil List - All Components                              |                                |            |             |               |                            |
|---|--------------------------------|------------|-------------|---------------|----------------------------|
| OH025-Clermont County, Ohio   |                                |            |             |               |                            |
| Map symbol and map unit name  | Component/Local Phase          | Comp. pct. | Landform    | Hydric status | Hydric criteria met (code) |
| AwA: Avonburg-Urban land complex, nearly level                          | Avonburg                       | 60         | Till plains | No            | —                          |
|   | Urban land                     | 35         | —           | Unranked      | —                          |
|   | Rossmoyne                      | 5          | Till plains | —             | —                          |
| BoD2: Bonnell silt loam, 15 to 25 percent slopes, eroded                | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BoE: Bonnell silt loam, 25 to 40 percent slopes                         | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| BrD3: Bonnell silty clay loam, 15 to 25 percent slopes, severely eroded | Bonnell                        | 85         | Till plains | No            | —                          |
|   | Rossmoyne                      | 8          | Till plains | —             | —                          |
|   | bedrock at less than 40 inches | 7          | —           | —             | —                          |
| CcB2: Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded    | Cincinnati                     | 90         | Till plains | No            | —                          |
|   | Rossmoyne                      | 10         | Till plains | —             | —                          |
|   | severely eroded areas          | —          | —           | —             | —                          |
| CcC2: Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded   | Cincinnati                     | 90         | Till plains | No            | —                          |
|   | severely eroded areas          | 5          | —           | —             | —                          |
|   | Edenton                        | 5          | Hills       | —             | —                          |
|   | slightly eroded areas          | —          | —           | —             | —                          |

Go to the top right section and click on the Add to Shopping Cart

Data
Shopping Cart (Free)

Printable Version
Add to Shopping Cart

Qualities
Ecological Site Assessment
Soil Reports

Scale (not to scale)

Add to Shopping Cart Options

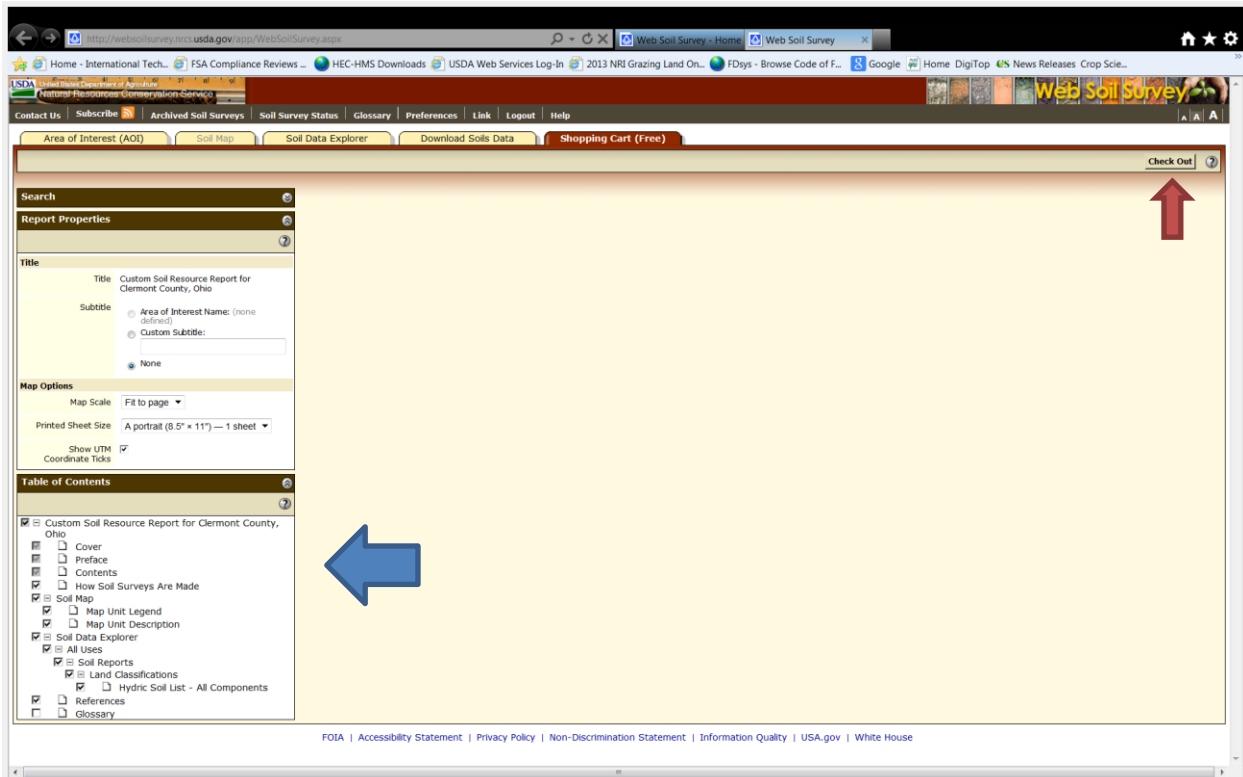
Title Hydric Soil List - All Components

Subtitle (optional)

Cancel OK

Add a subtitle if desired (I rarely do) then click OK

You can run additional reports as desired and add to Shopping cart in the same way, then go to Shopping Cart Tab (see next page).



You can select/deselect any of the parts of the report you would like (blue arrow) then check out (red arrow).

The screenshot shows a 'Checkout Options' dialog box. It has a title bar with a question mark icon. Below the title bar, there is a section titled 'Delivery Options'. Under this section, there is a label 'Select a Delivery Method' followed by two radio button options: 'Get now' (which is selected) and 'Download later'. At the bottom right of the dialog box, there are two buttons: 'Cancel' and 'OK'.

Small reports you can use the get now function, this allows you to open it in pdf then print and or save.

Larger reports only allow you to use doownload later, where you will get an email that has a link to download the report.